



 PRODUCT-DETAILS

ACS580-01-293A-4

LV AC general purpose wall-mounted drive,
IEC: Pn 160 kW, 293 A, 400 V (ACS580-01-293A-4)



General Information

Global Commercial Alias	ACS580-01-293A-4
Product ID	3AUA0000080508
ABB Type Designation	ACS580-01-293A-4
EAN	6438177305644
Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 160 kW, 293 A, 400 V (ACS580-01-293A-4)

Long Description

The ACS580-01 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture. All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The wall-mounted ACS580-01 comes in IP21 enclosure as standard. Also, IP55 and flange mounting units are available.

Ordering

Customs Tariff Number	85044086
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description	ACS580-01-293A-4 PN: 160 kW, IN: 293 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Weight	69 kg 152.119 lb
Product Net Depth / Length	393 mm 15.472 in
Product Net Height	965 mm 37.992 in
Product Net Width	300 mm 11.811 in
Package Level 1 Depth / Length	1145 mm 45.079 in
Package Level 1 Height	654 mm 25.75 in
Package Level 1 Width	485 mm 19.094 in
Package Level 1 Units	1 case

Technical

Number of Phases	3-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 5 ... 95
Sound dB (A)	65 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R8
Input Voltage (U _{in})	380 ... 480 V
Mounting Type	Wall-mounted
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 Parallel 2 PROFINET 0 RS-232 0 RS-422 0

	RS-485 1 Serial TTY 0 USB 1
Includes	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Normal Use (I_n)	293 A
Output Current, Light-Overload Use (I_{LD})	278 A
Output Current, Heavy-Duty Use (I_{HD})	246 A
Output Power, Normal Use (P_n)	160 kW
Output Power, Light-Overload Use (P_{LD})	160 kW
Output Power, Heavy-Duty Use (P_{HD})	132 kW
Apparent Power Output	4071 W
Efficiency Level	203 kV-A IE2
Standby Loss	47 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	981 W	91.8 %	0.5 %
0/50 %	1382 W	93.9 %	0.7 %
0/100 %	2541 W	94.3 %	1.3 %
50/25 %	1088 W	95.5 %	0.5 %
50/50 %	1582 W	96.5 %	0.8 %
50/100 %	3032 W	96.6 %	1.5 %
90/50 %	1907 W	97.7 %	0.9 %
90/100 %	4071 W	97.5 %	2.0 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10001818627
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

Global Warming Potential GWP Total	Distribution (Module A4) 17 kg CO ₂ eq End of Life (Modules C1-C4) 100 kg CO ₂ eq Installation (Module A5) 34 kg CO ₂ eq Manufacturing (Modules A1-A3) 782 kg CO ₂ eq Total 36577 kg CO ₂ eq Use (Modules B1-B7) 35643 kg CO ₂ eq
SCIP	392bf175-c6df-4719-8b82-cdb09cfcad61 Finland
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

External Classifications and Standards

ETIM 9	EC001857 - Frequency converter =< 1 kV
ETIM 10	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Categories

Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-01 - Wall-mounted drive



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